

**What is claimed is:**

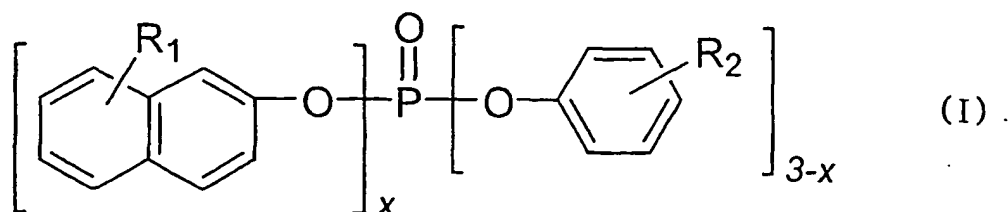
1. A flame retardant thermoplastic resin composition comprising:

5 (A) 45 to 95 parts by weight of a thermoplastic polycarbonate resin;

(B) 1 to 50 parts by weight of a vinyl graft copolymer prepared by graft-polymerizing (B-1) 5 to 95 parts by weight of a monomer mixture consisting of (B-1.1) 50 to 95 by weight of at least one selected from the group consisting of styrene,  $\alpha$ -methylstyrene, halogen- or alkyl-substituted styrene,  $C_{1-8}$  methacrylic acid alkyl ester, and  $C_{1-8}$  acrylic acid alkyl ester and (B-1.2) 5 to 50 parts by weight of at least one selected from the group consisting of acrylonitrile, methacrylonitrile,  $C_{1-8}$  methacrylic acid alkyl ester,  $C_{1-8}$  acrylic acid alkyl ester, maleic acid anhydride, and  $C_{1-4}$  alkyl- or phenyl N-substituted maleimide onto (B-2) 5 to 95 parts by weight of a rubber polymer selected from the group consisting of butadiene rubber, acryl rubber, ethylene-propylene rubber, styrene-butadiene rubber, acrylonitrile-butadiene rubber, isoprene rubber, copolymer of ethylene-propylene-diene (EPDM), polyorganosiloxane-polyalkyl (meth)acrylate rubber complex and a mixture thereof;

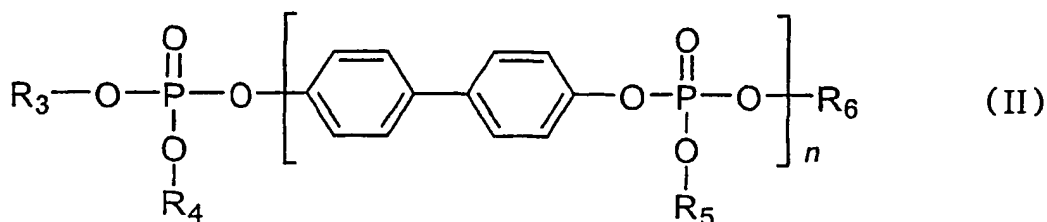
(C) 0 to 50 parts by weight of a vinyl copolymer or a mixture of vinyl copolymer prepared from (C-1) 50 to 95 parts by weight of at least one selected from the group consisting of styrene,  $\alpha$ -methyl styrene, halogen or alkyl substituted styrene,  $C_{1-8}$  methacrylic acid alkyl ester and  $C_{1-8}$  acrylic acid alkyl ester and (C-2) 5 to 50 parts by weight of at least one selected from the group consisting of acrylonitrile, methacrylonitrile,  $C_{1-8}$  methacrylic acid alkyl ester,  $C_{1-8}$  acrylic acid alkyl ester, maleic acid anhydride, and  $C_{1-4}$  alkyl or phenyl N-substituted maleimide;

25 (D) 1 to 30 parts by weight of a mixture of organic phosphorous compounds consisting of (D-1) 5 to 95 parts by weight of a monomeric phosphoric acid ester compound represented by the following Formula (I) or a mixture thereof and (D-2) 95 to 5 parts by weight of an oligomeric phosphoric acid ester compound represented by the following Formula (II) or a mixture thereof, per 100 parts by weight of the sum of (A), (B) and (C):



wherein  $\text{R}_1$  and  $\text{R}_2$  are independently hydrogen or a  $\text{C}_{1-5}$  alkyl group and  $x$  is 0 or an integer from 1 to 3,

5



wherein  $\text{R}_3$ ,  $\text{R}_4$ ,  $\text{R}_5$  and  $\text{R}_6$  are independently a  $\text{C}_{6-20}$  aryl group or an alkyl-substituted  $\text{C}_{6-20}$  aryl group, respectively, and  $n$  is an integer representing the number of repeating units from 1 to 5, the average value of  $n$  in the mixture of oligomeric phosphoric acid ester is 1 to 3; and

(E) 0.05 to 5.0 parts by weight of a fluorinated polyolefin resin with average particle size of 0.05 to 1,000  $\mu\text{m}$  and density of 1.2 to 2.3  $\text{g/cm}^3$ , per 100 parts by weight of (A)+(B)+(C).

15

2. The flame retardant thermoplastic resin composition as defined in claim 1, wherein said  $\text{R}_1$  and  $\text{R}_2$  are independently hydrogen or alkyl group in which alkyl is methyl, ethyl, isopropyl or t-butyl.

20

3. The flame retardant thermoplastic resin composition as defined in claim 1, wherein said  $\text{R}_3$ ,  $\text{R}_4$ ,  $\text{R}_5$  and  $\text{R}_6$  are independently phenyl group, naphthalene group,

and alkyl-substituted phenyl group in which alkyl is methyl, ethyl, isopropyl and t-butyl.

4. A molding article produced from the flame retardant thermoplastic resin  
5 composition as defined in claim 1.